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no. EL833456188US In an envelope addressed to the
Assistant Commissioner of Patents, Washington, D.C. 20231, on July 25, 2001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor: Brad Bosworth & Peter Vögeli)

Serial No.: 09/844,705)

Examiner: N/A

Attorney Docket No. 21419/91512)

Art Unit: N/A

Filing Date: April 27, 2001)

Title: METHODS TO IDENTIFY SWINE
GENETICALLY RESISTANT TO F18 *E. COLI*
ASSOCIATED DISEASES)

SUBMISSION OF SEQUENCE LISTING UNDER 37 C.F.R. § 1.821(e)

Assistant Commissioner for Patents
BOX MISSING PARTS
Washington, D.C. 20231

Dear Sir:

The paper copy of the Sequence Listing in this application 09/844,705, is identical to the computer readable copy of the Sequence Listing filed in application 09/443,766, filed November 19, 1999. In accordance with 37 C.F.R. § 1.821(e), please use the computer readable form filed in that application as the computer readable form for the instant application. It is understood that the Patent and Trademark Office will make the necessary change in application number and filing date for the instant application. A paper copy of the Sequence Listing is included in a separately filed preliminary amendment for incorporation into the specification.

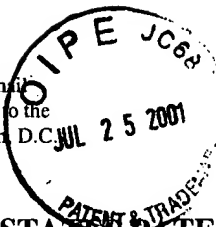
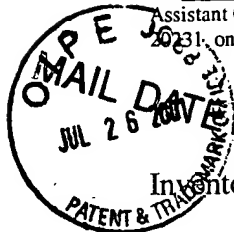
No fees are believed due at this time, however, please charge any deficiencies or credit any overpayments to deposit account number 10-0435 with reference to our attorney docket number (21419/91512)

Respectfully Submitted,



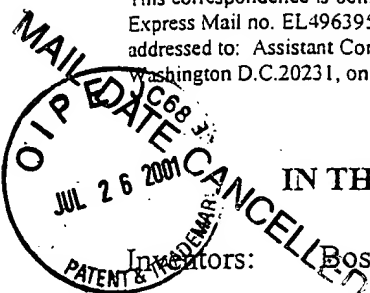
Alice O. Martin
Attorney for Applicant
Reg. No. 35,601

BARNES & THORNBURG
2600 Chase Plaza
10 South LaSalle Street
Chicago, Illinois 60603
July 25, 2001
CHDS01 AOM 105756v1



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This correspondence is being deposited mailed via
Express Mail no. EL496395728US in an envelope
addressed to: Assistant Commissioner for Patents
Washington D.C.20231, on February 22, 2000



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: Bosworth *et al.*

Serial No. 09/443,766

Attorney Docket No. 21419/90368

Filing Date: November 19, 1999

Title: METHODS AND COMPOSITIONS TO
IDENTIFY SWINE GENETICALLY RESISTANT)
TO F.18 E.COLI ASSOCIATED DISEASES)

Group No. 1643

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TRANSMITTAL LETTER FURNISHING
NUCLEOTIDE AND/OR AMINO ACID SEQUENCE LISTING

Assistant Commissioner of Patents
Box Sequence Listing
Washington, D.C. 20231

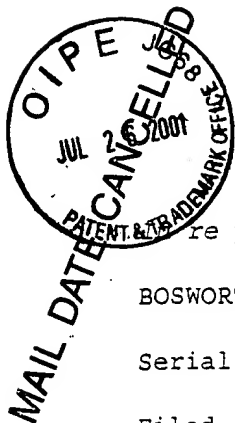
Dear Sir:

Enclosed is a Nucleotide and/or Amino Acid Sequence Listing. Attachments to the
response include a Sequence Listing, a Sequence Disk, and the required statement.

Respectfully submitted,

Alice O. Martin
Registration No. 35,601

Barnes & Thornburg
2600 Chase Plaza
10 South LaSalle Street
Chicago, Illinois 60606
(312) 214-8316
February 22, 2000



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

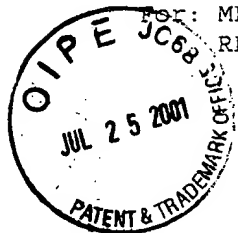
Atty. Docket No: 21419/90368

re patent application of

BOSWORTH, BRAD et al.

Serial No. 09/443,766

Filed: November 19, 1999



For: METHODS AND COMPOSITIONS TO IDENTIFY SWINE GENETICALLY
RESISTANT TO F18 E. COLI ASSOCIATED DISEASES

STATEMENT TO SUPPORT FILING AND SUBMISSION IN
ACCORDANCE WITH 37 C.F.R. §§ 1.821-1.825

Assistant Commissioner for Patents
Washington, D.C. 20231
Box SEQUENCE

Sir:

In connection with a Sequence Listing submitted concurrently
herewith, the undersigned hereby states that:

1. the submission, filed herewith in accordance with 37
C.F.R. § 1.821(g), does not include new matter;

2. the content of the attached paper copy and the
attached computer readable copy of the Sequence Listing, submitted in
accordance with 37 C.F.R. § 1.821(c) and (e), respectively, are the same;
and

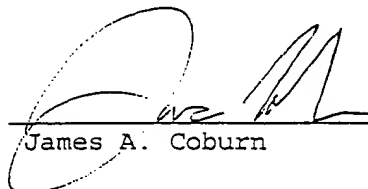
3. all statements made herein of their own knowledge are
true and that all statements made on information and belief are believed to
be true; and further, that these statements were made with the knowledge
that willful false statements and the like so made are punishable by fine
or imprisonment, or both, under Section 1001 of Title 18 of the United

Serial No. 09/443,766

States Code and that such willful false statements may jeopardize the validity of the application or any patent resulting therefrom.

Respectfully submitted,

January 17, 2000
Date


James A. Coburn

HARBOR CONSULTING
Intellectual Property Services
1500A Lafayette Road
Suite 262
Portsmouth, N.H.
800-318-3021